Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The coefficient of x^{10} in the expansion $(x^3+3/x^2)^{10}$ is	A. 1700 B. 17023 C. 17027 D. 17010
2	(fog)′(x) =f′(g(x))g′(x) is derivative by	A. Chain rule B. Reciprocal rule C. Power rule D. Product rule
3	Question Image	A. -1 B. 0 C. 1 D. undefined
4	If y = sin (ax + b), then fourth derivative of y with respect to x =	A. a⁴cos (ax + b) B. a⁴sin (ax + b) C. -a⁴sin (ax + b) D. a⁴tan (ax + b)
5	A cone is generated by all lines through a fixed point and the circumference of	A. a Circle B. an ellipse C. a Hyperbola D. None of these
6	The point which is closet to the focus of a parabola is:	A. vertex B. Chord C. Focus D. Directix
7	Question Image	A. 36 B. 360 C. 24 D. 6
8	Question Image	
9	Question Image	
10	If n is any positive integer then n^2> n + 3 for	
11	Question Image	
12	Question Image	
13	Question Image	A. 1 B. 5 C. 7 D. 9
14	Question Image	
15	If the angle between two vectors u and v is 0 orπ, then the vectors u and v are:	A. Orthogonal B. Collinear C. Perpendicular D. None of these
16	Question Image	
17	An equation of the form ax + by = k is homogeneous linear equation when	A. b = 0, a = 0 B. a = 0,b ≠ 0 C. b = -0,a≠ 0 D. a≠ 0,b≠ 0, k = 0
18	The maximum value of 12 $\sin\theta$-9 $\sin^2\theta$ is x	A. 3 B. 4 C. 5 D. None of these
19	Question Image	
20	The no of term is the expansion of (a+x)n-1 is	A. n+1 B. n-1

20 The no of term is the expansion of (a+x)n+1 is

C. n
D. n-2